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(71) Applicant: FUJI PHOTO FILM CO LTD

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(72) Inventor: MIYASAKA TSUTOMU

(54) FUNCTIONAL ORGANIC THIN FILM

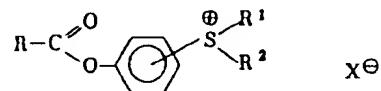
(57) Abstract:

PURPOSE: To provide the title thin film capable of immobilizing thereon in high density a variety of functional compounds such as photosensitive coloring matters, oxidizing and reducing compounds and biologically active proteins, consisting of monomolecular film or cumulated film consisting of amphiphatic organic molecule including specific active ester derivative.

CONSTITUTION: The objective thin film consisting of

monomolecular film or cumulated film consisting of amphiphatic organic molecule including active ester derivative of the formula [R is \geq 13C aliphatic group (pref. \leq 60C alkyl or fluoroalkyl); R₁ and R₂ are each alkyl or fluoroalkyl (esp. pref. methyl or fluoromethyl); X is halogen ion, sulfate ion or nitrate ion].

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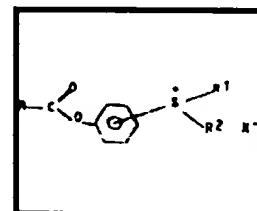
Derwent Title: **Functional organic thin film - comprising at least one amphoteric organic molecule which is an active phenyl ester deriv.**

Original Title: JP02272081A2: FUNCTIONAL ORGANIC THIN FILM

Assignee: **FUJI PHOTO FILM CO LTD** Standard company
Other publications from FUJI PHOTO FILM CO LTD
(FUJIFILM)

• Inventor: **None**

Accession/ 1990-373620 / 199050



Derwent Classes: B04 D16 E14 L03 S03 B05

Manual Codes: **B04-B02C2**(Oxidoreductases) , **B04-B04A**(Proteins, nucleic acids, cells general) , **B04-B04C**(Antigens, general antibody (pre-94)) , **B10-A01**(1 or 2 ring aromatics and (cyclo) aliphatics with onium (e.g. sulfonium, iodonium) or free radical) , **D05-A01A3**(Industrial fermentation - non-polymeric organic compound carrier) , **D05-H10**(Fixing biological substances or cells to a carrier and the carriers themselves) , **E10-A01**(Aromatic and (cyclo)aliphatic - with onium(s), aminimide, ylid, free radical) , **L03-D01D**(Opto-electronic materials) . **S03-E14H4**(Immunoassay)

Derwent Abstract: (JP02272081A) A functional organic thin film consisting of monomolecular film or multilayer of amphoteric organic molecules comprises at least one kind of amphoteric organic molecule which is an active ester deriv. formula (I). In (I), R = 13 or more C aliphatic gp. or fluoroalkyl group; R1 and R2 = alkyl gp. and X = anion gp. **EMBODIMENT:** Functional guest molecules such as enzyme (e.g. glucose oxidase, amino acid oxidase, etc.), protein (antigen, antibody, etc.), fluorescent dye, etc. can be immobilised in high density on the functional organic thin film, forming functional organic thin film.

USE/Advantage - Optional functional cpd. such as enzyme, protein etc. can be chemically immobilised on the functional organic thin film, and high efficiency chemical reaction or physical change caused by the functional cpd. immobilised on the thin film can be utilised for the formation of sensor image, information recording, energy conversion, etc.

Images:



Dwg.0/0

Family: [PDF Patent](#) [Pub. Date](#) [Derwent Update](#) [Pages](#) [Language](#) [IPC Code](#)
 JP02272081A * 1990-11-06 199050 English B01F 17/00
 Local appls.: [JP1989000094670](#) Filed:1989-04-14 (89JP-0094670)

Priority Number:

Application Number	Filed	Original Title
JP1989000094670	1989-04-14	FUNCTIONAL ORGANIC THIN FILM

Chemical Indexing Codes: [Show chemical indexing codes](#)

Markush Compound Numbers: [Show Markush numbers](#)

Registry Numbers: 03[M1]:**1327U 0502U**
 01[M2]:**1327U 0502U**
 01[M3]:**1327U 0502U**
 02[M6]:**1327U 0502U**

Title Terms: FUNCTION ORGANIC THIN FILM COMPRISING ONE AMPHOTERIC ORGANIC MOLECULAR ACTIVE PHENYL ESTER DERIVATIVE

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